

SUBMERSIBLE / LEVEL TRANSMITTER "LOW PRESSURE" Model BR313L

APPLICATIONS:

- Weirs, Wells, Pond Level Reservoirs / Dams
- Ground Water Wells
- Shipboard Level Control
- Rig Ballast Control

FEATURES:

- Rugged, Welded Stainless Steel Construction
- Voltage Surge Protection
- Lightning Protection-Available upon request
- Encapsulated electronics
- · Polyurethane or Tefzel Reinforced Cable with Integral vent tube
- 4-20 mA standard (3mV/V, 0-5 VDC optional)

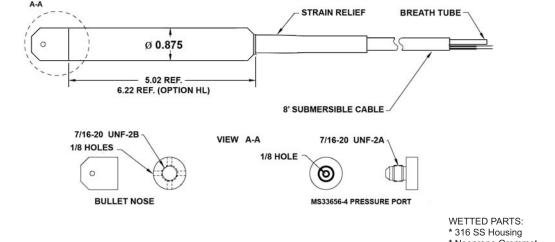
PRESSURE RANGES:

• 0-20 In.WC to 0-500 PSI (see ordering guide.)

ACCURACY:

• From ±0.5% (0.10% Optional) (see specifications & ordering guide.)





- * Neoprene Grommet
- * Polyurethane Jacketed Cable
- * PVC Bullet Nose

WIRING CODE

	313L	
RED + EXC./SIGNAL		
BLACK - EXC./SIGNAL		
SHIELD OPEN		

Blue Ribbon reserves the right to make product improvements and amendments to the product specifications stated throughout this brochure without prior notification. Please contact the factory on all critical dimensions and specifications for verification.

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BLUE RIBBON Sales & Services Corp.

Standard Specifications listed below.

Consult factory for further options, which may change the overall dimensions.

Output (at 70°F)	Model 313L 4-20mA ±2.0% FSC)	
Accuracy	Option B ±0.5% FSO (RSS)	Option C ±0.2% FSO (RS	Option D SS) ±0.1% FSO (RSS)
Pressure Ranges	0-20 In.WC to 0-500	PSI	
Pressure Types	2 Gauge 7 Gauge/non-herme	6 Sealed gaug tic 8 Elevated	e
Zero Balance	4mA ±2.0% FSO at	70°F	
Span	16mA ±2.0% FSO at	t 70°F	
Temperature Limits	Compensated 0°F to +140°F	Operating -40°F to +150°F	Storage -40°F to +150°F
Temperature Compensation	Zero / Span (Standard) Less than ±2.0% FSO/100°F at FSPR and/or URL		
Electricals	Excitation 9 – 40 VDC	Load Impedance 1400 ohms maximum at 40 VDC excitation	Circuit Protection Resolution Short Circuit – Indefinite Infinite
Reversed Wire - Indefinite	Voltage Surge Protection (Standard)		
Insulation Resistance	> 10 megohms at 50 VDC and 70°F		
Standard Connections	Process Connection Electrical Connection PVC Bullet Nose Polyurethane or Tefzel Reinforced Cable with integral vent tube (8 Ft. Standard – other lengths available upon request)		
Mechanicals	Proof Pressure 2X FSPR (or URL)	Burst Pressure 4X FSPR (or U	
Pressure Response	≤ 5 ms to 90%		
Long Term Stability	≤ +0.5% FSO/year		
Position Effect	± 0.01% FSO for a 9	0° change in orientation	
Calibration Orientation	Horizontal unless spe	ecified	
Cycle Life	1 million pressure cycles		
Fluid Fill	200 CS Dow Corning 200 (Silicon Oil)		
Length	6.2" (adding options will vary the length)		
Diameter	0.875		
Weight	2.5 oz. Nominal, add	2.5 oz. Nominal, adding options may increase weight	
Wetted Material	Case 316 Stainless Steel		

ORDERING GUIDE:

MODEL	ACCURACY	PRESSURE RANGE	PRESSURE TYPES	OPTIONS
• -	- • -	- • -	- • -	•/•/•

Example: 313L-B-PZ-LJ

MODEL	313L	4-20mA

ACCURACY

- ±0.5% FSO (RSS) R
- С ±0.2% FSO (RSS) D ±0.1% FSO (RSS)

PRESSURE RANGE

(PSI)			(IN	WC)	
PG	3	РХ	75	ХВ	20
PJ	5	ΡZ	100	XD	30
PL	7.5	RB	150	XF	50
PN	10	DD	200	XН	75

PN	10	RD	200	XH	75
PP	15	RE	250	XK	100
PR	20	RF	300	XM	150
PO	25	RH	500	хо	200
PT	30	SZ	Other	XQ	300
PV	50				

PRESSURE TYPES

- 2 Gauge/direct/<300 psi (vented)
- 6 Sealed gauge (Hermetic seal/non-vented)
- 7 Gauge/non-hermetic seal/300 psi & Above (non-vented)

CONNECTOR AA

- 8' Vented submersible cable (direct gauge ref. units) <300 PSI
- AA 8' Non-vented submersible cable ≥300 PSI
- ст Tefzel jacketed cable
- cz Alternate cable length (specify)

ALTERNATE PRESSURE PORT

FH	1/8" NPT (F)

- FL 1/8" NPT (M)
- LD Tapered inlet
- Tapered inlet with standoff plate LJ

GENERAL

G2

- GA Standardized output to ±0.5% FSO. GB
 - Alternate output, pressure units, or full scale outputs that are non-standard.
- GE Improved temperature compensation to $\pm 0.5\%$ FSO unless otherwise specified. GG Alternate calibration signal.
- GH Internal calibration resistor set to 100 ±0.5% FSO unless other wise specified. JH Remote cable mounted (in-line) zero & span controls. 3' cable on open side.
 - Length of cable on closed side as required. (500' maximum)
- GΖ Customer special
 - Lightning Protection

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